

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>		<b>CONTRACT NO/TASK NO</b>		<b>JOB ORDER NUMBER</b>	<b>APPROPRIATE</b>
QSS Group, Inc.		NAS5- 99124	TASK NO. 441	AMENDMENT	571-359-01-01-89 01

**TASK TITLE:** (NTE 80 characters; include Project name)  
 Triana AOCs Analysis, Simulation and Test

<b>APPROVALS:</b> (Type or print name and sign)					
<b>ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)</b>			<b>DATE</b>	<b>ORG CODE</b>	<b>MAIL CODE</b>
Wendy Morgenstern <i>Wendy Morgenstern</i>			12/15/00	572	572
<b>BRANCH HEAD</b>			<b>DATE</b>	<b>CODE</b>	<b>PHONE</b>
Tom Stengle <i>T. Stengle</i>			12/15/00	572	301-286-5478
<b>CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)</b>			<b>DATE</b>	<b>CODE</b>	<b>PHONE</b>
Robert S. Lebar, Jr. <i>Robert S. Lebar, Jr.</i>			12/18/00	560	301-286-6588
<b>FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?</b> <small>(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)</small>		<b>CONTRACTING OFFICER'S QUALITY REP.</b>		<b>DESIGNATED FAM:</b>	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)  
**C.O. Requested Quote on:**  
**Date:**

Contractor will develop specification or statement of work under this task for a future procurement.		<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
Flight hardware will be shipped to GSFC for testing prior to final delivery.		<input type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A
Government Furnished Property/Facilities:	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)	
Onsite Performance:	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	If yes: <input type="checkbox"/> TOTAL <input checked="" type="checkbox"/> PARTIAL
If partial, indicate onsite work in SOW by asterisk (*)		
Surveillance Plan Attached:	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	
Highlighted Contract Clauses:	<small>(to be completed by Contracting Officer)</small>	

**INCENTIVE FEE STRUCTURE** (check one)  
(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<input checked="" type="checkbox"/> No. 1	<input type="checkbox"/> No. 2	<input type="checkbox"/> No. 3	<input type="checkbox"/> No. 4	<input type="checkbox"/> No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ \_\_\_\_\_.

The target fee of this task order is \$ \_\_\_\_\_.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ \_\_\_\_\_.

The maximum fee is \$ \_\_\_\_\_.

The minimum fee is \$0.

**AUTHORIZED SIGNATURE:**

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

SIGNATURE OF CONTRACTING OFFICER	DATE	TYPED NAME OF CONTRACTING OFFICER
----------------------------------	------	-----------------------------------

**CONTRACTOR'S ACCEPTANCE:**

AUTHORIZED SIGNATURE	DATE
----------------------	------

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

CONTRACTOR

CONTRACT NO./TASK NO.

QSS Group, Inc.

NAS5-

99124

TASK NO.

441

AMENDMENT

Applicable paragraphs from contract Statement of Work:

**STATEMENT OF WORK:**

Contractor shall serve as a member of the Triana AOCS (Attitude and Orbit Control System) Analysis Team, supporting Code 572, the Flight Dynamics Analysis Branch of the Guidance, Navigation and Control Engineering Center.

Contractor shall use his detailed and specific knowledge of the design and implementation of Triana's AOCS (Attitude and Orbit Control System) design and implementation in performing the following work:

- 1) Perform AOCS analyses and simulations of Triana's unique, gyroless Safe Hold Mode, the Science Mode controller, including flexible-body mode characteristics and the stabilization of those modes, and all remaining AOCS control modes.
- \* 2) Perform software test support tasks as assigned by the Triana AOCS Analysis Lead.
- \* 3) Attend meetings, support reviews, and interface with other subsystem and Project personnel.
- 4) Generate analysis reports, memos, and viewgraph presentations to document results.
- 5) Provide monthly technical progress reports.

**PERFORMANCE SPECIFICATIONS:**

**Reports and Documents:** Technical performance will be based on thoroughness and completeness of written reports. Acceptable performance is that the ATR is satisfied that the material reflects the proper level of technical expertise and meets the objectives of the activity. Reports shall be delivered to the ATR both as a hard copy and in MS Office compatible format via either diskette or email.

**Technical Progress Reports:** Acceptable performance is that the ATR is satisfied that he is being kept informed of the status of work performed and of issues requiring his attention. Report to include: (1) summary of monthly progress; (2) plans for next month; (3) problems; (4) issues; and (5) resolution of problems/issues.

**Management:** Performance will be measured against the following metrics: (1) accomplishment of objectives; (2) clear, incremental progress; (3) responsiveness to issues; (4) efficient and appropriate staffing; and (5) coordination with and good working relationship with ATR and other related contractor efforts, if applicable.

**APPLICABLE DOCUMENTS:**

None.

**TASK END DATE:**

1/31/02

**MILESTONES/DELIVERABLES AND DATES:**

- |  |                            |
|--|----------------------------|
| 1. Technical Progress Reports  | Monthly, 15th of the month |
| 2. Review and approve AOCS Software Build 1.1 Performance Test results | 2/1/01                     |
| 3. Document Safehold Stability Analysis; complete conference paper     | 4/1/01                     |
| 4. Review and approve AOCS Software Build 2.0 Performance Test results | 5/15/01                    |
| 5. Support flight operations team (FOT) training and simulations       | 11/1/01                    |
| 6. Support launch readiness review                                     | 12/1/01                    |
| 7. Support launch and early operations; support calibration planning   | 1/31/02                    |

**PERFORMANCE STANDARDS:**

**Schedule:** On-time delivery/completion of deliverables/milestones

**Technical:** ATR's acceptance of the above

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Wendy Morgenstern, building 11, room S102